IN THE CLAIMS:

- 1-10. (Canceled)
- 11. (Previously presented) An isolated and purified soybean nucleic acid molecule encoding a biologically active SCN/SDS resistance polypeptide.
 - 12. (Canceled)
- 13. (Previously presented) The nucleic acid molecule of claim 11, further comprising an isolated soybean *rhg1* and SDS resistance nucleic acid, said nucleic acid capable of conveying *Heterodera glycines*-infestation resistance, *Fusarium solani*-infection resistance, or both *Heterodera glycines*-infestation resistance and *Fusarium solani*-infection resistance to a non-resistant soybean germplasm, said nucleic acid located within a quantitative trait locus mapping to linkage group G and mapped by genetic markers of SEQ ID NOs:1-6, said nucleic acid located along said quantitative trait locus between said markers.
- 14. (Currently amended) The nucleic acid molecule of claim 11, further defined as a nucleic acid molecule selected from the group consisting of:
 - (a) a nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO:13;
 - (b) a nucleic acid molecule comprising a nucleotide sequence that is substantially identical at least 90% identical to SEQ ID NO:13; and
 - (c) a single stranded nucleic acid molecule that hybridizes to a nucleic acid molecule comprising the reverse complement of the nucleotide sequence set forth in SEQ ID NO:13 under wash stringency conditions represented by a wash solution having about 200 mM salt concentration and a wash temperature of at least about 45°C, and that encodes an SCN/SDS resistance polypeptide.
- 15. (Previously presented) The nucleic acid molecule of claim 14, further defined as comprising a 20 base pair nucleotide sequence that is identical to a contiguous 20 base pair nucleotide sequence of nucleotides 1-1830 of SEQ ID NO:13.
 - 16. (Canceled)

- 17. (Original) The nucleic acid molecule of claim 11, further defined as a DNA segment.
- 18. (Previously presented) The nucleic acid molecule of claim 11, wherein the nucleic acid molecule is operatively linked to a promoter.
- 19. (Previously presented) The nucleic acid molecule of claim 18, wherein said nucleic acid molecule and promoter are operationally inserted into a recombinant vector.
- 20. (Original) A recombinant host cell comprising the nucleic acid molecule of claim 11.
- 21. (Original) A transgenic plant having incorporated into its genome a nucleic acid molecule of claim 11, the nucleic acid molecule being present in said genome in a copy number effective to confer expression in the plant of an SCN/SDS resistance polypeptide.
- 22. (Currently amended) <u>A</u> <u>Plant</u> seed[[s]], part[[s]], or progeny of a <u>transgenic</u> plant as claimed in claim [[20]] <u>21</u>.
- 23. (Previously presented) The nucleic acid molecule of claim 11, further comprising an isolated soybean *Rhg4* nucleic acid, said nucleic acid capable of conveying *Heterodera glycines*-infestation resistance to a non-resistant soybean germplasm, said nucleic acid located within a quantitative trait locus mapping to linkage group A2 and mapped by the AFLP markers of SEQ ID NOs:7-12, said nucleic acid located along said quantitative trait locus between said markers.
- 24. (Currently amended) The nucleic acid molecule of claim 23, further comprising:
 - (a) the nucleotide sequence of any one of SEQ ID NOs:16-19;
 - (b) a nucleotide sequence substantially identical at least 90% identical to any one of SEQ ID NOs:16-19; or
 - (c) a nucleotide sequence that hybridizes to one of SEQ ID NOs: 16-19 under wash stringency conditions represented by a wash solution having about 200 mM salt concentration and a wash temperature of at least about 45°C, and that encodes an SCN/SDS resistance polypeptide.

- 25. (Currently amended) A transgenic plant comprising an isolated soybean *Rhg4* nucleic acid comprising a nucleic acid sequence selected from the group consisting of:
 - (a) the nucleotide sequence of any one of SEQ ID NOs:16-19;
 - (b) a nucleotide sequence substantially identical at least 90% identical to any one of SEQ ID NOs:16-19; or
 - (c) a nucleotide sequence that hybridizes to one of SEQ ID NOs: 16-19 under wash stringency conditions represented by a wash solution having about 200 mM salt concentration and a wash temperature of at least about 45°C, and that encodes an SCN/SDS resistance polypeptide.
- 26. (Currently amended) A seed Seeds, part[[s]], or progeny of the transgenic plant of claim 25, wherein the seed[[s]], part[[s]], or progeny comprises the isolated soybean *Rhg4* nucleic acid.

27-70. (Canceled)

- 71. (Previously presented) A method for providing a resistance trait to a plant, the method comprising introducing into said plant a construct comprising a nucleic acid molecule comprising a nucleic acid sequence encoding a soybean SCN/SDS resistance gene product operatively linked to a promoter, wherein production of the SCN/SDS resistance gene product in the plant provides SCN or SDS resistance trait to the plant.
- 72. (Previously presented) The method of claim 71, wherein the construct further comprises a vector selected from the group consisting of a plasmid vector and a viral vector.
- 73. (Previously presented) The method of claim 71, wherein the SCN/SDS resistance gene product comprises a protein having an amino acid sequence of amino acids 1-610 of SEQ ID NO:14.
- 74. (Currently amended) The method of claim 71, wherein the nucleic acid sequence is selected from the group consisting of:
 - (a) a nucleotide sequence set forth as nucleotides 1-1830 of SEQ ID NO:13;

- (b) a nucleotide sequence substantially identical at least 90% identical to nucleotides 1-1830 of SEQ ID NO:13; and
- (c) a nucleotide sequence that hybridizes to nucleotides 1-1830 of SEQ ID NO:13 under wash stringency conditions represented by a wash solution having about 200 mM salt concentration and a wash temperature of at least about 45°C, and that encodes an SCN/SDS resistance polypeptide.
- 75. (Previously presented) The method of claim 71, wherein the resistance trait is nematode resistance, fungal resistance or combinations thereof.
- 76. (Original) The method of claim 75, wherein the nematode resistance is *H. glycines* resistance.
- 77. (Original) The method of claim 76, wherein the *H. glycines* resistance is race 3 *H. glycines* resistance.
- 78. (Original) The method of claim 71, wherein the construct further comprises another nucleic acid molecule encoding a polypeptide that provides an additional desired characteristic to the plant.
- 79. (Currently amended) The method of either of claim[[s]] 71 or 78, wherein the method further comprises monitoring an insertion point for the construct in the plant genome; and providing for insertion of the construct into the plant genome at a location not associated with the resistance characteristic, the desired characteristic, or both the resistance and the desired characteristic.
- 80. (Original) The method of claim 71, wherein the plant is a soybean plant.
- 81. (Currently amended) An isolated and purified soybean nucleic acid molecule comprising a nucleic acid sequence encoding a soybean disease resistance polypeptide, wherein the disease is one of *Heterodera glycines* infestation and *Fusarium solani* infection, wherein the isolated and purified nucleic acid molecule is selected from the group consisting of:

- (a) an isolated and purified nucleic acid molecule encoding a polypeptide having an amino acid sequence of amino acids 1-610 of SEQ ID NO:14;
- (b) an isolated and purified nucleic acid molecule having a nucleotide sequence set forth as nucleotides 1-1830 of SEQ ID NO:13;
- (c) an isolated and purified nucleic acid molecule having a nucleotide sequence substantially identical at least 90% identical to nucleotides 1-1830 of SEQ ID NO:13; and
- (d) an isolated and purified nucleic acid molecule having a nucleotide sequence that hybridizes to nucleotides 1-1830 of SEQ ID NO:13 under wash stringency conditions represented by a wash solution having about 200 mM salt concentration and a wash temperature of at least about 45°C, and that encodes an SCN/SDS resistance polypeptide.